

RVSB packets Discard

Slice Predictor

42

38

-36

ATSC Receiver

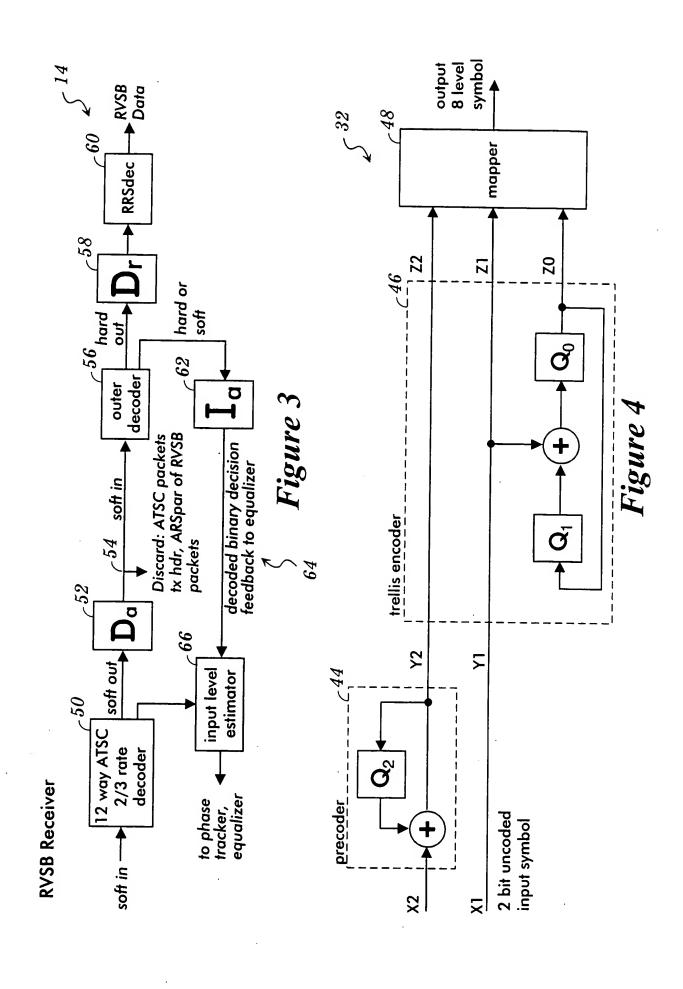
ARS dec

Oar

2/3 rate decoder 12 way ATSC

soft in ___

Figure 5



branch label :

 X_2X_1 / mapped output lev 1

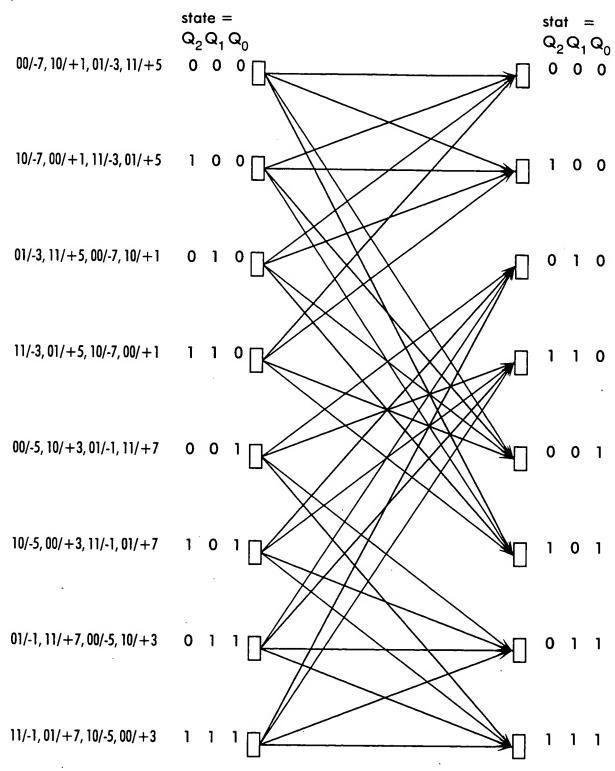
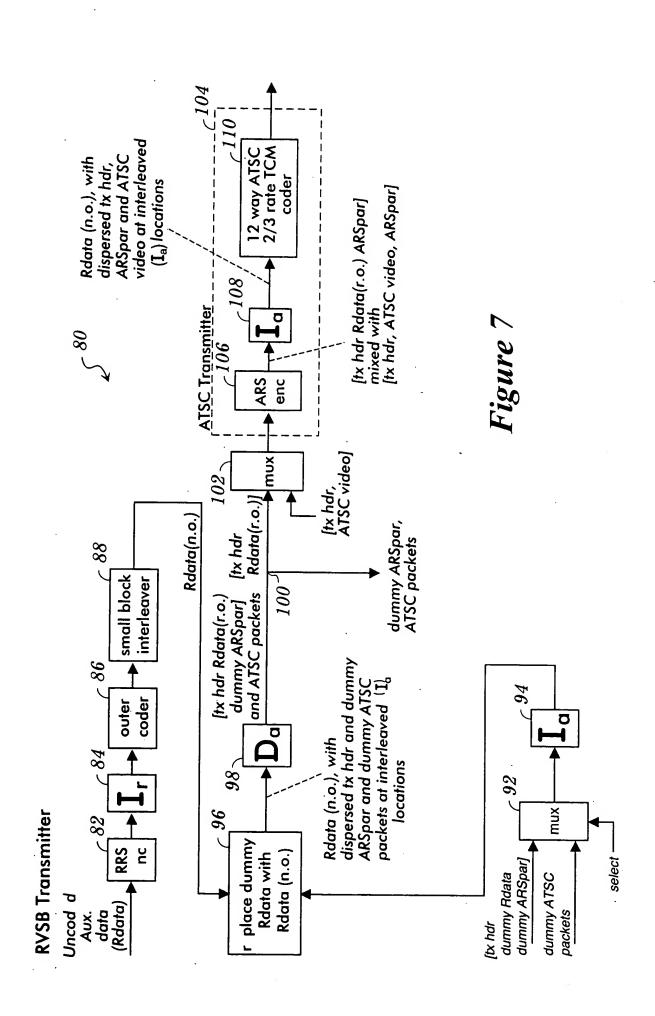
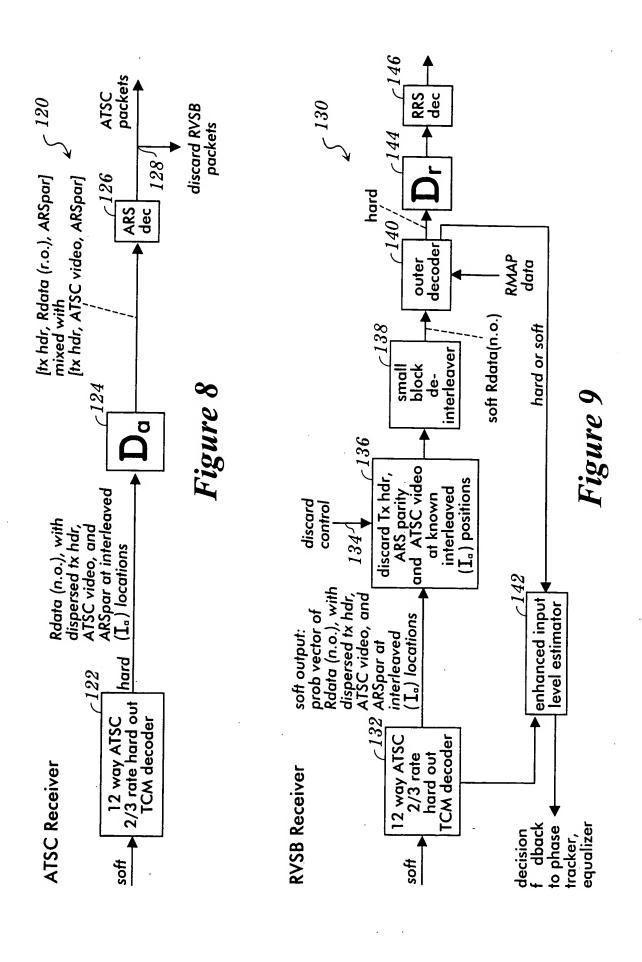


Figure 6





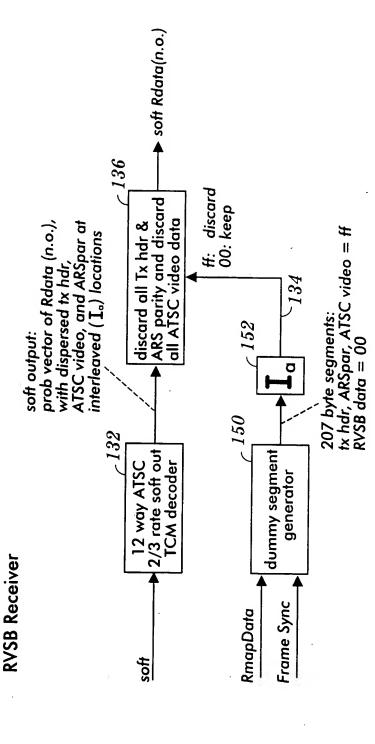
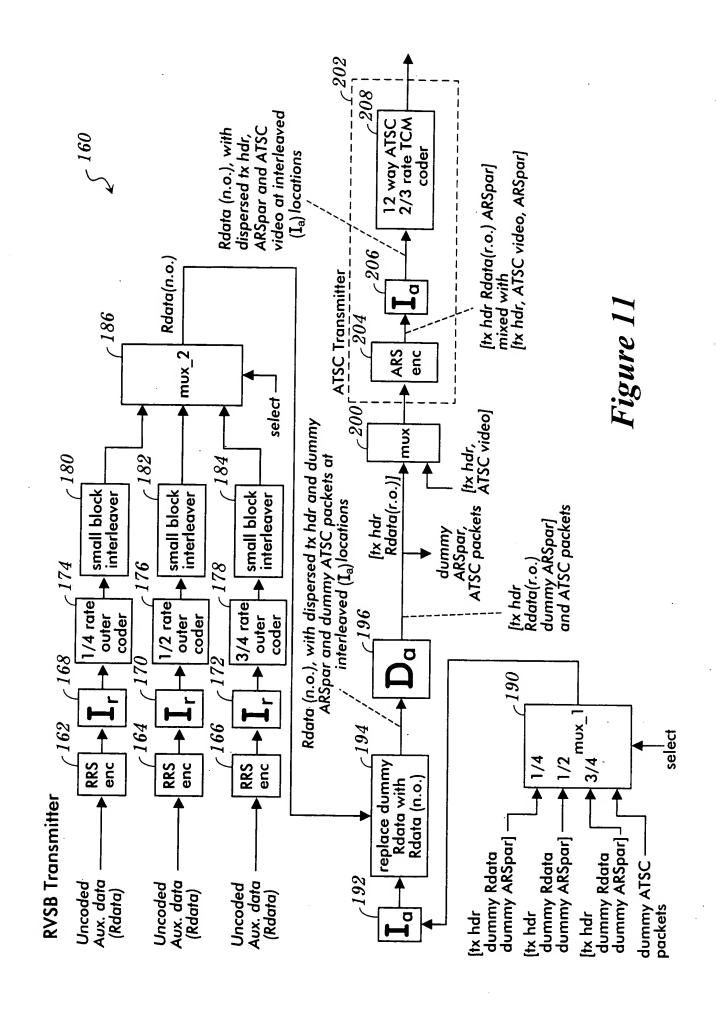


Figure 10



for 1/2 rat outer code

ATSC tx hdr	RVSB data (736 symbols)		ARS parity
(12 symbols)	92 bytes payload		(80 symbols)
ATSC tx hdr	RVSB data (576 symbols)	RRS parity (160 symbols) 20 bytes	ARS parity
(12 symbols)	72 bytes payload		(80 symbols)
ATSC tx hdr	RVSB data (736 symbols)		ARS parity
(12 symbols)	92 bytes payload		(80 symbols)
ATSC tx hdr	RVSB data (576 symbols)	RRS parity (160 symbols) 20 bytes	ARS parity
(12 symbols)	72 bytes payload		(80 symbols)

2 bits/symbol

1 bit/symbol

2 bits/symbol

Figure 12

for 1/4 rate outer code

ATSC tx hdr	RVSB data (736 symbols)		ARS parity
(12 symbols)	46 bytes payload		(80 symbols)
ATSC tx hdr	RVSB data (736 symbols)		ARS parity
(12 symbols)	46 bytes payload		(80 symbols)
ATSC tx hdr	RVSB data (736 symbols)		ARS parity
(12 symbols)	46 bytes payload		(80 symbols)
ATSC tx hdr	RVSB data (416 symbols)	RRS parity (320 symbols) 20 bytes	ARS parity
(12 symbols)	26 bytes payload		(80 symbols)

2 bits/symbol

0.5 bit/symbol

2 bits/symbol

Figure 13

for 3/4 rate outer code

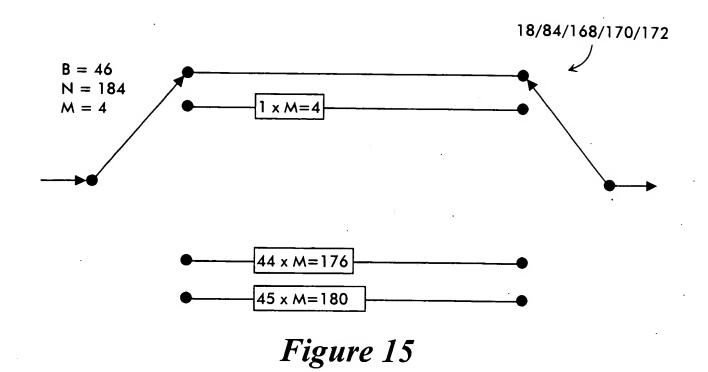
ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 138 bytes payload	ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 26 bytes payload 20 bytes RRS parity 92 bytes payload	ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 72 bytes payload 20 bytes RRS parity 46 bytes payload	ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 118 bytes payload 20 bytes RRS parity	ARS parity (80 symbols)

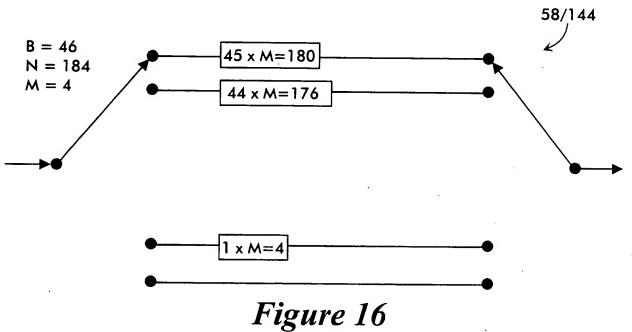
2 bits/symbol

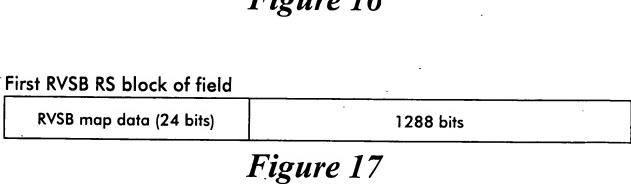
1.5 bit/symbol

2 bits/symbol

Figure 14







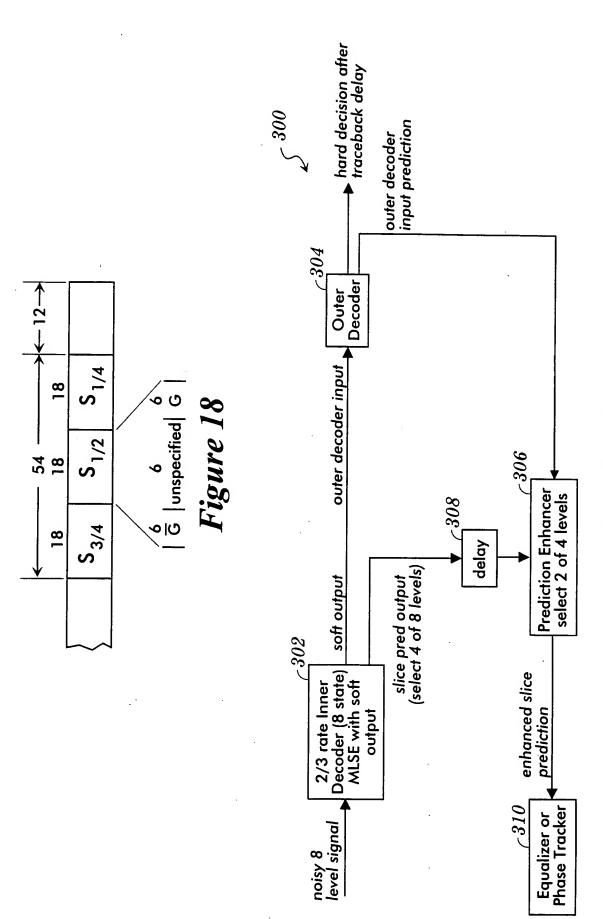
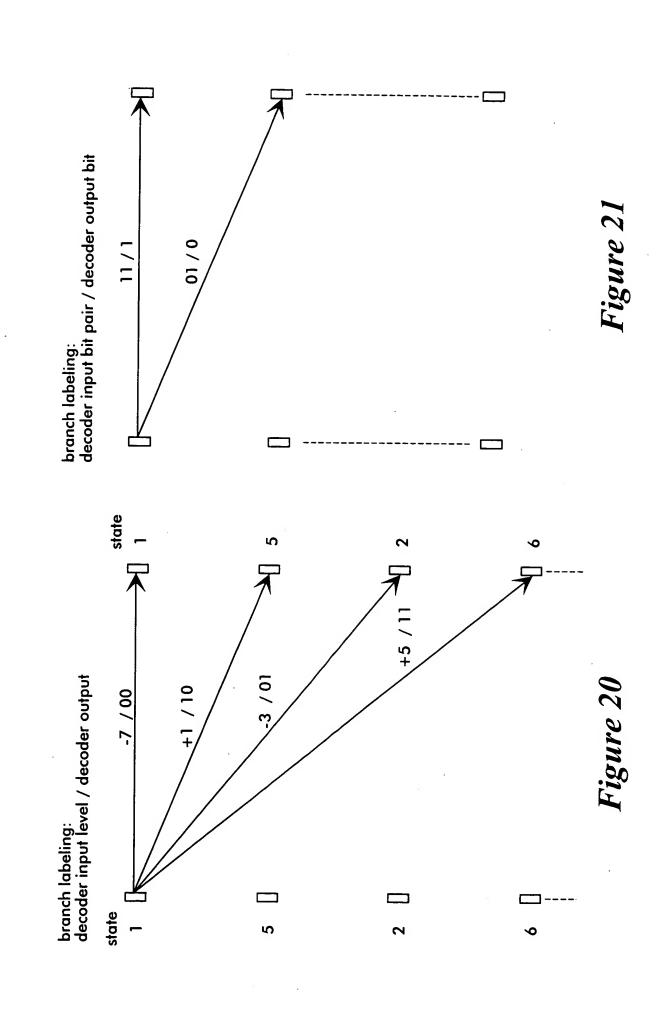


Figure 19



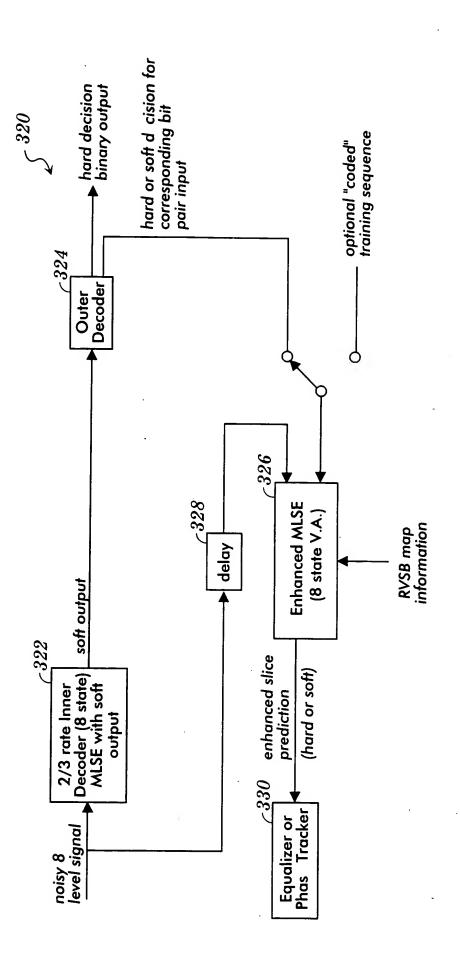


Figure 22